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Poster Title: Automated Text Classification Using a Multi-Agent Framework

Abstract: Automatic text classification is an important operational problem in digital library practice. Most text classification efforts so far concentrated on developing centralized solutions. However, centralized classification approaches often are limited due to constraints on knowledge and computing resources. In addition, centralized approaches are more vulnerable to attacks or system failures and less robust in dealing with them. We present a de-centralized approach and system implementation (named MACCI) for text classification using a multi-agent framework. The multi-agent approach is evaluated through comparison with a centralized approach. The evaluation methodology and experimental design are discussed in detail.